

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: June 11, 1996  
Date Received: June 6, 1996  
Project: Metro Self Monitor, PO M53554  
Date Samples Extracted: June 7, 1996  
Date Extracts Analyzed: June 11, 1996

**RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, AND ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**  
Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M53554	0.31	0.29	0.24	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: June 11, 1996

Date Received: June 6, 1996

Project: Metro Self Monitor, PO M53554

**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 69551 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.31	0.27	14	0-20
Copper	mg/L (ppm)	0.29	0.32	10	0-20
Nickel	mg/L (ppm)	0.24	0.24	0	0-20
Zinc	mg/L (ppm)	<0.05	0.06	nm	0-20

Laboratory Code: 69551 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery		Acceptance	Relative
				MS	MSD	Criteria	Percent Difference
Chromium	mg/L (ppm)	5	0.31	95	95	80-120	0
Copper	mg/L (ppm)	5	0.29	97	95	80-120	2
Nickel	mg/L (ppm)	10	0.24	95	94	80-120	1
Zinc	mg/L (ppm)	5	<0.05	94	93	80-120	1

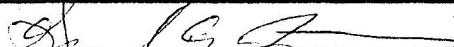
Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery		Acceptance	Relative
			MS	MSD	Criteria	Percent Difference
Chromium	mg/L (ppm)	5	100	99	80-120	1
Copper	mg/L (ppm)	5	98	99	80-120	1
Nickel	mg/L (ppm)	10	99	97	80-120	2
Zinc	mg/L (ppm)	5	99	97	80-120	2



nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

KNJ AI  
6.6.96  
1:55

Send Report To: Alaskan Copper Works Contact: GERALD Thompson  
Company \_\_\_\_\_  
Address 628 HANCOCK ST  
City, State, Zip SEATTLE WA 98134  
Phone # (206) 382-8379 Date 6-6-95

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7-238	Metro Self Monitor	n 53554
SAMPLERS (signature)	PROJECT LOCATION	
	3200 6 <sup>th</sup> Ave S.	
REMARKS	SAMPLE DISPOSAL INFORMATION	
	<input type="checkbox"/> Dispose after 30 days	
	<input checked="" type="checkbox"/> Return Samples	
	<input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD A. Thompson	A.C. Co	6/6/96	1:10pm
Received by: 	Bradley T Benson	FBI	6/6/96	1:10
Relinquished by:				
Received by:				

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Andrew John Friedman  
James E. Bruya, Ph.D.  
(206) 285-8282

3012 16th Avenue West  
Seattle, WA 98119-2029  
FAX: (206) 283-5044

**June 11, 1996**

**INVOICE # 96ACU0611-1  
DUPLICATE COPY**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

**RE: Project Metro Self Monitor, PO M53554: Results of testing requested by  
Gerry Thompson, Project Manager for material submitted on June 6, 1996.**

1 process water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$65 per sample

\$ 65.00

**Amount Due .....**

**\$ 65.00**



**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

Andrew John Friedman  
James E. Bruya, Ph.D.  
(206) 285-8282

3012 16th Avenue West  
Seattle, WA 98119-2029  
FAX: (206) 283-5044

**June 11, 1996**

**Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134**

**Dear Mr. Thompson:**

**Enclosed are the results from the testing of material submitted on June 6, 1996  
from your Metro Self Monitor, PO M53554 project.**

**We appreciate this opportunity to be of service to you and hope you will call if you  
should have any questions.**

**Sincerely,**

**FRIEDMAN & BRUYA, INC.**



**Kurt Johnson  
Chemist**

**keh  
Enclosures  
ACU0611R.DOC**